

Portable Passive Fast Light Optical Gyroscope (FLOG) Project

Game Changing Development Program | Space Technology Mission
Directorate (STMD)

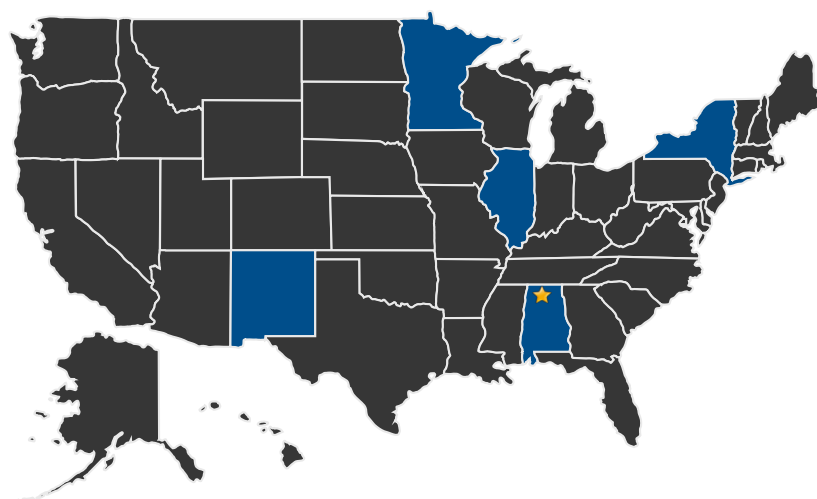


DETAILED DESCRIPTION

Design, build, and test the first passive and active fast light optical gyros (FLOGs), progressing down in size from an optical table top, to a small optical breadboard, to a vacuum packaged mechanically-hardened version, with the ultimate goal to be able to detect rotation rates orders of magnitude smaller than current best technologies without increasing gyroscope size.



U.S. WORK LOCATIONS AND KEY PARTNERS



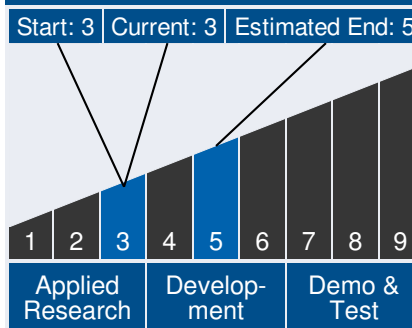
■ U.S. States
With Work

★ **Lead Center:**
Marshall Space Flight Center

Table of Contents

Detailed Description	1
U.S. Work Locations and Key Partners	1
Technology Maturity	1
Management Team	1
Technology Areas	2
Details for Technology 1	2

Technology Maturity



Management Team

Program Executive:

- Lanetra Tate

Program Manager:

- Mary Wusk

Project Manager:

- David Smith

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Other Organizations Performing Work:

- Alabama A&M University
- Delaware State University
- Digital Optical Technologies
- Digital Optics Technologies
- General Atomics
- Honeywell, Inc.
- Jacobs Technologies
- Lenzner Research
- Northwestern University
- Torch Technologies
- U.S. Army Aviation and Missile Research Development Engineering Center
- University of Alabama in Huntsville (Huntsville, AL)
- University of New Mexico
- University of Rochester

Contributing Partners:

- Tel-Aviv University

Technology Areas

Primary Technology Area:

Communications, Navigation, and
Orbital Debris Tracking and
Characterization Systems (TA 5)

└─ Position, Navigation, and
Timing (TA 5.4)

DETAILS FOR TECHNOLOGY 1
